

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.

In The Claims:

- ✓ 1. (Previously Amended) A food package ~~An article~~ for delivering a food- or beverage-forming product to a dispenser comprising a receptacle having at least one wall member that defines an enclosure, a food- or beverage-forming product present within the enclosure, and a tag associated with the food- or beverage-forming product and package receptacle, wherein the tag includes machine-readable information regarding the product which information is programmed at the manufacturing plant and includes instructions or a verification code in electronic form for controlling at least one of preparation of a food or beverage from the food- or beverage-forming product in the dispenser or dispensing of a food or beverage from the dispenser.
- ✓ 2. (Previously amended) The food package article of claim 1, wherein the tag is programmable affixed to an exterior surface of the package.
- ✓ 3. (Previously Amended) The food package article of claim 1, wherein the tag is an RFID device.
- ✓ 4. (Previously amended) The food package article of claim 3 1, wherein the tag includes identification information in electronic form for the product affixed to an interior surface of the package.
5. (Cancelled)
- ✓ 6. (Previously Amended) The food package article of claim 1 3, wherein the tag includes a date of expiration in electronic form for the product.
7. (Cancelled)
- ✓ 8. (Previously Amended) The food package article of claim 1, wherein the food- or beverage-forming product provides a single serving portion of the food or beverage.
- ✓ 9. (Previously Amended) The food package article of claim 1, wherein the food- or beverage-forming product provides a multiple serving portion of the food or beverage

✓ 10. (Previously Amended) The food package article of claim 1, wherein the verification code is tag includes an expiration date determined from the date when the package receptacle is opened.

✓ 11. (Previously Amended) The food package article of claim 1, wherein the food- or beverage-forming product is a powder, a concentrate or a ready-to-drink product.

✓ 12. (Previously Amended) A method of preparing or dispensing a food or beverage, which method comprises:

encoding instructions at a manufacturing plant for preparation of the food or beverage on a machine-readable tag;

~~associated associating the tag with a receptacle that contains a food-forming or beverage-forming product and a package that contains the product;~~

placing the package receptacle in or close to a dispenser;

reading of the machine-readable tag by the dispenser prior to preparation or dispensing of the food or beverage ~~to be dispensed~~; and

executing the instructions encoded on the machine-readable tag by the dispenser to prepare or dispense the food or beverage.

✓ 13. (Previously Amended) A method of controlling the preparation or dispensing of a food or beverage product from a food-forming or beverage-forming product, which method comprises:

encoding a verification code on a machine-readable tag at a manufacturing plant, wherein the tag is associated with a ~~receptacle that contains a food-forming or beverage-forming product and a food package that contains the product;~~

placing the package receptacle in or close to a dispenser;

reading of the machine-readable tag by the dispenser prior to preparation or dispensing of a food or beverage from the food- or beverage- forming product; and

comparing of the verification code read from the machine-readable tag with a list of valid verification codes;

wherein the food or beverage is either prepared from the food- or beverage- forming product or ~~and~~ dispensed when the verification code read from the machine-readable tag matches a valid verification code from the list

14. (Original) The method of claim 13, wherein an error code is generated when the verification code read from the machine-readable tag does not match a valid verification code from the list.

15. (Original) The method of claim 14, wherein the error code disables the dispenser from preparing or dispensing the food or beverage.

✓ 16. (Original) The method of claim 14, wherein the error code notifies a consumer that the product selected for dispensing is not available.

✓ 17. (Original) The method of claim 14, wherein the error code notifies an operator of the dispenser that an invalid product verification code has been read.

18. (Previously Amended) A method of determining consumption of foods or beverages from a dispenser, which method comprises:

recording information on a machine-readable tag associated with a ~~receptacle that contains a food-forming or beverage-forming product~~ and a package that contains the product;

updating a computer database with the recorded information;

reading of the machine-readable tag by the dispenser when the food or beverage is dispensed;

updating the computer database with information about the foods or beverages that are dispensed; and

sorting the information to determine consumption patterns for the foods or beverages that are dispensed.

19. (Previously Amended) The method of claim 18, which further comprises: reading the machine-readable tag before the package ~~receptacle~~ is delivered to the dispenser to obtain supply information;

updating the computer database with the supply information, and

sorting the information to determine supply sources of the packages ~~receptacles~~ for the dispenser

20. (Original) The method of claim 18 , which further comprises utilizing the consumption pattern information to schedule times for re-supplying the dispenser with receptacles.

✓ 21. (Previously Amended) A system for dispensing a product, comprising a dispenser adapted for reading a tag associated with one or more food packages ~~receptacles~~ according to claim 1 and for preparing and dispensing a food or beverage from the food-forming or beverage-forming product(s) of the package(s) ~~receptacle(s)~~.

✓ 22. (Previously Amended) The system of claim 21 , wherein the package ~~receptacle~~ is composed of a non-conductive material and the tag is located within the enclosure.

✓ 23. (Previously Amended) The system of claim 21 , wherein the package ~~receptacle~~ is composed of a conductive material and the tag is attached to the at least one wall member on a side opposite that of the enclosure.

✓ 24. (Original) The system of claim 21 , wherein the tag is an RFID device that includes information in electronic form regarding the features, properties or processing of the product.

✓ 25. (Original) The system of claim 21 , wherein the dispenser includes a tag reader for reading the tag, and a processor having memory operatively associated with the dispenser, and the tag reader, and a connection to an external communications network, the processor configured to

- signal the tag reader to read the tag;
- receive information read from the tag by the tag reader;
- store the information in the memory; and
- place the information on the external communications network.

26. (Original) The system of claim 25 , wherein the tag includes product preparation instructions in electronic form and the processor is also configured to carry out the instructions to prepare and dispense the product.

27. (Original) The system of claim 26 , wherein the processor sets one of a dilution ratio, an operating temperature, a mixing time, or a dispensing time for the dispenser in accordance with the set of instructions in electronic form.

28 (Original) The system of claim 26 , wherein the processor is further configured to read a current time and date from an electronic clock, and then the processor compares the current time and date with a time and date of expiration contained in the set of information; and

when the current time and date is earlier than or equal to the time and date of expiration, processor disables the dispenser from dispensing the product.

29. (Original) The system of claim 28 , further comprising the step of:  
when the current time and date is earlier than or equal to the time and date of expiration, the processor places a data set on the external communications network, the data set to include a name of the product, the time and date of expiration, and an indicia of identification for the dispenser.

✓ 30. (Previously Amended) A system for authenticating and dispensing a prepared product, comprising a plurality of food packages receptacles, each having at least one wall member that defines an enclosed area containing a food- or beverage-forming product and having a machine-readable tag associated with each receptacle food- or beverage-forming product and package, a mechanism for extracting the food- or beverage-forming product from each receptacle package, and for preparing a food or beverage from food- or beverage-forming product(s), a device for reading the machine-readable tag, and a processor operatively coupled to the device and the mechanism, the processor configured to:

collect information from the machine-readable tag from the device for reading the machine-readable tag;

compare the collected information with a pre-determined quality indicia;

control the mechanism to extract and prepare the food or beverage when the collected information matches the pre-determined quality indicia; and

prevent the mechanism from extracting, ~~or preparing~~, or dispensing the food or beverage when the collected information does not match the pre-determined quality indicia.

31. (Original) The system of claim 30, wherein the machine-readable tag is an RFID and the device for reading the machine-readable tag is an RFID reader.

32. (Original) The system of claim 31, wherein the pre-determined quality indicia is a brand name, an indication of origin, a generic product grading or an expiration date.

33. (Previously Added) The system of claim 30, which further comprises preparing the food or beverage from the food- or beverage-forming products only when the collected information matches the pre-determined quality indicia.

34. (Previously Added) The system of claim 30, which further comprises dispensing the prepared food or beverage only when the collected information matches the pre-determined quality indicia.